



"...A SENTENCE FROM YOU ..."

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Interviewed on December 11, 2007 in
Born in [DATE] in [PLACE]
June 23, 1943, New Haven, Connecticut

McLEAN (VA) (other names)

Studies and Brief CV

Yale Hospital.
Then we moved to Los Angeles 1946. My father was in the Navy, served in a submarine (San Fernando Valley) to be a VANNVYS -> Steve Crocker, Jon Postel - all there.
Card (ICANN CEO).
1961 STANFORD (in Germany - Stuttgart little town 300km from top of hills). We held classes (70 people) English/German 6 month per.

mail address

ss related to you

Dec 1962 Center

Jun 1965 Graduate. When to LA Data Center: As a Systems Eng

1967 Quick TRAN IBM 7044 -> Programming

(GERALD ESTRIN). Multiprocessing. I worked for

Do you remember when you had your first contact with a computer?

Yes! Ben Kleinrock. First Programmer for Net - Center. Inject traffic to ARPANet for measuring and validate the queuing theory.

NCP -> WORK - Postel.

Oct 1972. We demonstrated Int. Conference Computer Communication.

International Working Group. IFIP 6.1 (Data Communication).

Sept 1973 We presented the basic document

What was your first contact/experience with Internet or ARPANET?

(ALEX McKenzie -> knows where). Bob Kahn left BBN when to ARPA. I left UCLA and went to STI as a professor. Then all the work started.

1971-1976 -> TCP protocols were developed (David Reed, Danny Cohen, John Postel).

Realtime Traffic - Don't need to have all been delivered. We could

VOCLTECH.

ARPA - asked, to come to Washington - July, August 1976. I undertook to manage the PRnet, SATnet and

In your opinion, what are the key characteristics of Internet?

late 1982. Then left the Gov to join MCI to create

22 Sept 1983 -> MCI-mail. June 1986, Kahn who left ARPA started VP a research company CNRI. We worked together until October 1984.

Oct 1994 - Rejoined MCI (VP, Architecture). Was acquired by Bernie Ebbers (Worldcom) and in 4 years he put the company in bankruptcy.

in that

late 2005, when was acquired by Verizon (after 11 years).

I thought I could go to the

Andrea Ves Baro andrea@vesbaro.info December 2007

October 2005 joined Google. What tells you want, (1994) last Architect "chief Internet Evangelist". I spend a lot of time traveling to carry out the

COMPUTER: 1958 *Sig. Monitor* (ca.)

(1550)

Systems Develop. Consort (Spin-out of Renss)

Hand had been working in Co. 2 conf.

ADAMS - Canada printing URS, then sent to Co.

Semi-~~structured~~ Integrated Ground Environment (SAGE)

Tube based Computer. You walked ~~to~~ to the computer

(17) 1960 Steve Crocker got permission to use computers at UCLH
(still at high school)

Burroughs: B-5000 5500 ← JTF as an undergrated.
Completely infected.

Completely infected

1968 with Ken Kleinrock's, when the AFQ was bid for the IMP.
we competed to that bid. (Jacobi Systems) we were consulting.
GPSS prog. languages.

1873 Internet - Bob Kahn was at

Internetworking: many packet SW networks

I remember Dec 1974 seeing the word internet.

The first TCP, spec had that. Always with capital 'I'.

Tower Case →

Upper case \rightarrow ARPANET internet.

→ Then I started using "I" for the public and "i" for private m.

CHARS: It's agnostic when it comes to transport.

And don't know about the content. are subject to these end to end concept.

People can write many apps, don't have to ask permission to create new soft.

to create new boys.

MILEST: 1972 Dad and I talking. 1974 Dec first complete spec. (page label)

Nov 22nd 1977 First demo PRSFO, SATnet Atlantic, and APPA net → UK, Norway & USA

1983 → add to ARPD program. DEP

1989 - First commercial pop. 1987 (had commercial) on 1989
from Kahn on 1988.

July/June 1989 record created. - permission from Kahl on 1/10/01
1/10/04 HCT wheat to license a

July/June 1987 - NSFnet
1986 - 1995 - NSFnet

1986 - 1115 - NST net
1980 APP net referred.

1994 Rise of Netscape

1989/ CERN Tim Berners Lee / Robert Cailliau

1992 ERIC PINA & Marc Andreassen - NC

Jim Clark - Andressen - NETSCAPE.

1996 dot boom is happening.

2000 DOT Inst.
2000 DOT Reg. (100% / year Van Base)
2000 DOT Reg. (40% / year Normal)

38 molecules / 100% Interactable molecules



What do you consider the most important milestones in the development of the network?

- 19..
-

How did you contribute to the development of the Internet?

(How it contributed to the development of the Network?)

Is a collaborative activity TCP.

Both IETFs: What IETF goes means.

IAB, chair for a time.

ISOC → 3 years first President.

1989 → Nov 2007 → chair of ICANN.

1998 → Extension of the net to other planets.

I'm trying to help at Google.

(DTN: delay and disruption tolerant net)
Hans 40 min / month 6 min.

Who are some key people in the development of Internet, leaders or trendsetters?

Two anecdotal situations

PR Net (SRI, Don Nelson). Did a lot of demos. My hearing aids were interfering.
17'40 17.5 GHz Crick paper. I could tell when the radio was off.

What do you think about the future of Internet?

Continue to expand. Up to 2015 (5B). If 3B in 2010.

Radio, TV, to the net. They start using net for the appliances.

How to index and interpret content of the net. Make sure to interpret the bits (reading JPEGs) other applic. codes.

Do you see any technological trends?

Very clear: Δ mob Δ BW edges Δ sensitive.

More mobile and a lot of interplay among.

ADDITIONAL READING

PAPERS & BOOKS MENTIONED / RECOMMENDED